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96.00 Utility Accommodation
96.60 Specific Requirements
96.63 Fluids and Gases

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A. Standards

The minimum standards for the design, construction, operation, and maintenance of fluid- and gas-type utility facilities shall be those embodied in the Wisconsin Administrative Code for each of the various utilities and phases of utility activities covered therein. When the codes, ordinances or laws of governmental agencies having jurisdiction are more restrictive, they shall govern.

In addition to the Wisconsin Administrative Codes and local governmental regulations, the utility installations shall at least meet the following requirements:

1. Water lines shall conform with the currently applicable specifications of the American Water Works Association and the Standard Specifications for Water and Sewer Construction in Wisconsin.
2. Pressure pipelines shall conform with the currently applicable requirements of Title 49, Code of Federal Regulations of the Office of Pipeline Safety.
3. Liquid petroleum pipelines shall conform with the currently applicable recommended practice of the American Petroleum Institute for pipeline crossings under railroads and highways.
4. Sanitary and storm sewers shall conform with the currently applicable specifications of the Standard Specifications for Water and Sewer Construction.

B. Irrigation and Drainage Pipes, Ditches, and Canals

Irrigation and drainage facilities installed across the right-of-way generally shall be designed and constructed in accordance with the Department's specifications as shown in Chapter 16, Standard Detail Drawings, of the Facilities Development Manual. Appurtenances which would constitute a hazard to traffic shall not be permitted within the clear zone and should be located outside of the right-of-way. Where ditch rider roads are adjacent to ditches or canals that cross the highway, consideration shall be given to safety, traffic, operations, and economic features when providing for the continuity of such roads.

C. Requirements for Appurtenances

Vent standpipes are not required for casings, but when used, the vent pipes shall be located and constructed to not interfere with maintenance of the highway nor be concealed by vegetation. These pipes should stand near a fence or the right-of-way line.

If drains are provided for casings, tunnels, or galleries enclosing carriers of liquids, liquefied gases, or heavy gases, they shall not outfall into highway ditches or natural water courses.

D. Special Treatment of Pipelines

1. General Policy

Special treatment of pipelines beneath highways, including interstates and other freeways and including any median, should not be required provided the pipe would be installed by jacking and/or dry boring the carrier pipe to an essentially snug fit.

2. Special Treatment

The Department shall require special treatment such as casing, cathodic protection, thickened wall carrier pipe, coating and wrapping, concrete sleeves, or caps of particular pipe crossings if, in the determination of the Department, such installation shall be more protective of the highway or of the safety and convenience of the traveling public. Some examples of locations where special treatment may be required include, but are not limited to, the following:

- a. Locations where a pipeline (whether crossing or a portion of pipe paralleling the highway) would pass in close proximity to a substructural part of a highway structure. This refers to pipes underground and not to pipes suspended on a highway structure, the latter of which should not require special treatment.
- b. Locations where a pipeline would pass beneath the slope wall below a highway structure.
- c. Locations where restraints inhibit a pipe from being placed or remaining at the depth required by code.
- d. Locations where the ground conditions are known to be particularly unstable.
- e. Locations where restraints inhibit a water pipe from being placed or remaining below the frost line.

E. Attachments to Structures

Pipelines that will be attached to a highway structure shall not exceed a maximum internal pressure of 10.6 kg/cm² (150 PSIG). Pipelines carrying pressures in excess of 10.6 kg/cm² (150 PSIG) shall be considered only if no other alternative location off the structure is feasible.

F. Maintenance Activities

Certain maintenance and other types of utility activities are considered minor in nature, and shall be allowed to be performed without an additional permit. However, should any of these selected maintenance activities be performed on facilities located within freeway right-of-way or significantly impact the free flow of traffic on any other highway (closure of a travel lane, diversion of traffic, etc.), a permit shall first be obtained from the Department.

No Additional Permit Required for:

1. Leak surveys (vehicle or walk patrol), line patrolling.
2. Pressure surveys (gauge check or setting of charts).
3. Odorant checks.
4. Regulator maintenance (change out, lockup check, spring change, etc.).
5. Valve maintenance (activation check, grease, replacement, etc.).
6. Line purging.
7. Exposed line survey and maintenance (on bridges, exposed valve assembly, etc.).
8. Line locates and facility marking.
9. Up rating pressure of main (monitoring).
10. Abandonment of main, services, etc.
11. Pit (vault) maintenance (water removal, painting, minor modifications).
12. Minor cutouts and repair of lines (installation of clamps, welds, etc.).
13. Cathodic protection checks and related repair.
14. Sign and marker installation/replacement.

F. Maintenance Activities (Continued)

- 15. Relief vent line inspections.
- 16. Maintenance and repair of telemetering equipment.
- 17. Land surveying.
- 18. Brush removal.
- 19. Painting above ground facilities.
- 20. Grass cutting or snow plowing.
- 21. Trim trees or remove brush for existing line.